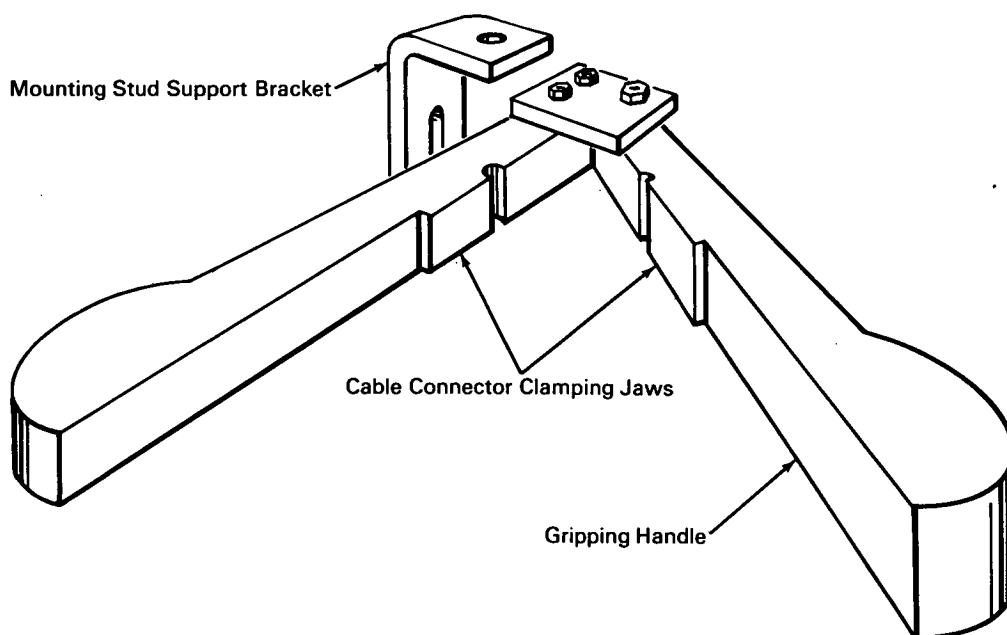


NASA TECH BRIEF



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Tool Enables Proper Mating of Accelerometer and Cable Connector



The problem:

To design a tool that can be used in conjunction with a torque wrench to fasten accelerometer cable connectors to accelerometers without damaging the components or permitting them to work loose under sustained, high-level vibrations.

The solution:

A tool that supports the accelerometer in axial alignment with the cable connector and permits tightening of the accelerometer to the cable connector with a torque wrench.

How it's done:

The accelerometer cable connector is secured finger-tight to the accelerometer. This assembly is then placed in the tool, with the accelerometer mounting stud held in the support bracket of the tool and the connector nesting between the contoured jaws. The bracket supports the accelerometer in axial alignment with the cable connector and prevents side loading and possible fracture of the mating connector. Hand-grip pressure is applied to the tool to clamp the cable connector and prevent it from turning while the specified

(continued overleaf)

torque is applied to flats on the accelerometer body with a standard torque wrench.

Note:

Inquiries concerning this innovation may be directed to:

Technology Utilization Officer
Marshall Space Flight Center
Huntsville, Alabama, 35812
Reference: B66-10208

Patent status:

No patent action is contemplated by NASA.

Source: C. N. Steed
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